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# Cotton Fiber and Processing Test Results

CROP of

1974



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 August 30, 1974

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1974

### Discussion of Test Results

The Cotton Division of the Agricultural Marketing Service report the average values for medium staples tested from the South Texas area to date show approximately the same average fiber length and fineness as a year ago. Cottons are slightly stronger at 1/8" gage than last season. Shirley analyzer nonlint content is higher, as is picker and card waste. Yarns spun from these samples show higher skein strength and appearance grades compared with last season. Imperfections were fewer than a year ago. Average spinning potential yarn number is higher.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1973,  
USDA, AMS, Cotton Division, May 1974.



Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States  
1/  
through August 23, 1974

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results								
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.					
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex	Pct.		Pct.	Lbs.	Index	No.	Yarn No.
No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.						
Medium Staple: Southwest 1973 1974	4	1.09	46	4.4	84	22	1.9	4.7	100	90	29	61					
	11	1.08	45	4.4	83	23	2.3	5.3	110	99	16	66					
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3					

1/ Based on a limited number of samples of modal quality  
2/ Minimum differences considered to be significant for comparisons in this table. These guides are  
based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1974

Production Area, Classification & Sample Number				Fiber Test Results							Processing Test Results - Carded Yarns											
No	Grade	Stple	Digital Fibrograph 2.5% span	Unif.	Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial	
						Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		
Name & Code			32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	
SOUTHWEST																						
SOUTH TEXAS																						
BROWNSVILLE																						
3	SIM	41	34	1.06	43	3.5	78	22	6.8	3.1	0	2	90 PERCENT	104	35	6.4	4.7	80	70	27	24	60
RIO HONDO																						
2	SIM	41	34	1.10	46	4.6	86	24	6.4	2.1	1	3	85 PERCENT	113	43	6.0	4.6	100	80	17	13	67
ROBSTOWN																						
2	MID	31	33	1.05	43	3.9	80	22	6.9	1.9	0	3	95 PERCENT	100	35	6.5	4.8	80	70	19	17	56
SAN JUAN																						
2	MID LT SP	32	34	1.09	44	4.8	86	24	5.6	2.7	1	4	70 PERCENT	114	41	5.6	4.2	110	100	15	11	66
SEBASTIAN																						
2	SIM	41	34	1.11	46	4.9	83	24	7.0	2.5	1	3	96 PERCENT	118	44	6.2	4.8	110	100	12	10	70